A plan you have been working on for a long time is beginning to take shape.



# press release

# Novo Nordisk plans first global launch of connected insulin pens and announces key digital health partnerships

**Bagsværd, Denmark, 1 October 2018** – Novo Nordisk today announced plans to make the durable, connected insulin pens NovoPen<sup>®</sup> 6 and NovoPen Echo<sup>®</sup> Plus commercially available across key markets commencing in early 2019. In parallel, to support the future integration of its connected pens with broader digital health solutions, Novo Nordisk has signed new partnership agreements with leading diabetes technology companies that share Novo Nordisk's vision to improve the lives of people with diabetes: Dexcom, Glooko and Roche.

# 2018-2019 Innovation Challenge

This challenge is seeking solutions that address one or a combination of the following needs of people living with diabetes:



### DATA SHARING

How might we combine pen injector data with other relevant health data to incentivize and enable patients to actively collect, manage and share their health data with their physician or caregiver?



### TITRATION

How might we optimize medicine titration and treatment decisions for people living with diabetes?



### DIALOGUE

How might we support the patient and provider dialogue in, and between, clinical visits to improve treatment and care?



### HEALTH INSIGHTS

How might we combine pen injector data with other relevant health data to develop actionable population health insights, targeted treatment care plans and novel business models that support improved care and outcomes?

# http://novonordisk.innovationchallenge.com

# Pharma needs to evolve ahead of oncoming disruption

# **Mobile Phone**

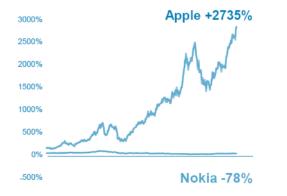
"They will be a niche player, like they are in computers"

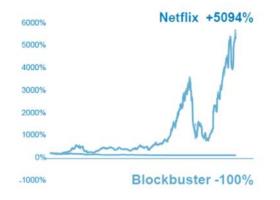
## **Video Entertainment**

"Why should we put shareholder money at risk in a market that's +5 years out? They are not even on the competitive radar screen."

# **Media Retail**

"Technology will not replace the fact that you can come into our stores and there is someone knowledgeable about books."









# **Digital Health in diabetes**

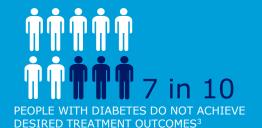
*Søren Smed Østergaard* | <u>www.linkedin.com/in/soren</u>

# Today, more than 425 million people have diabetes

And by 2045, 736 million people will have diabetes globally

# TODAY, 425 MILLION PEOPLE HAVE DIABETES.<sup>1</sup> BY 2045, IT IS ESTIMATED THAT 736 MILLION PEOPLE HAVE DIABETES.<sup>1</sup> PEOPLE WILL HAVE DIABETES GLOBALLY<sup>2</sup>









# "Medicines will not work if you do not take them"

19% increase in adherence to glaucoma medication Improvements in adherence to asthma medication from 2% to 22% across multiple studies

Statistically significant improvement in adherence to therapies in asthma, lung disease and epilepsy





 $\searrow$ 

up to 79% fewer asthma attacks up to 50% more doses taken on schedule Up to
50% more
symptom
free days

# There is not a single person who would choose to hav diabetes

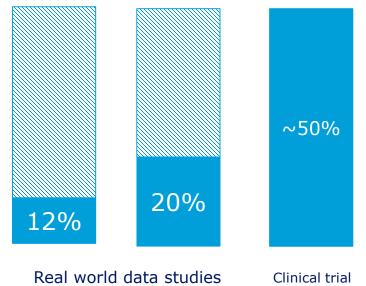


"<u>Increasing the effectiveness of adherence</u> interventions may have a <u>far greater</u> <u>impact</u> on the health of the population than any improvement in specific medical treatments"



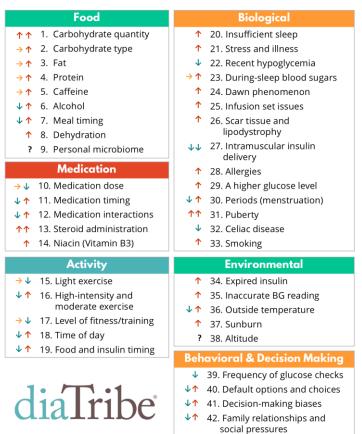
# **Massive opportunity for improvement**

% of patients reaching HbA1C < 7%





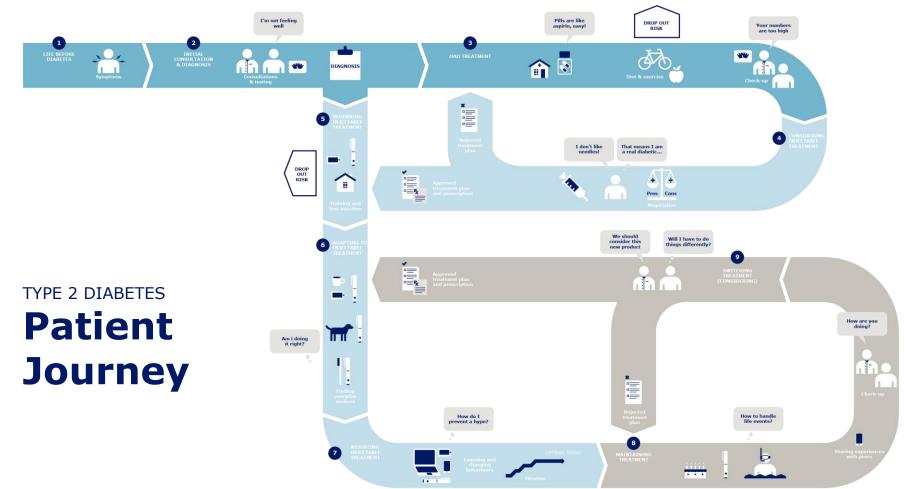
# **Factors That Affect BG**

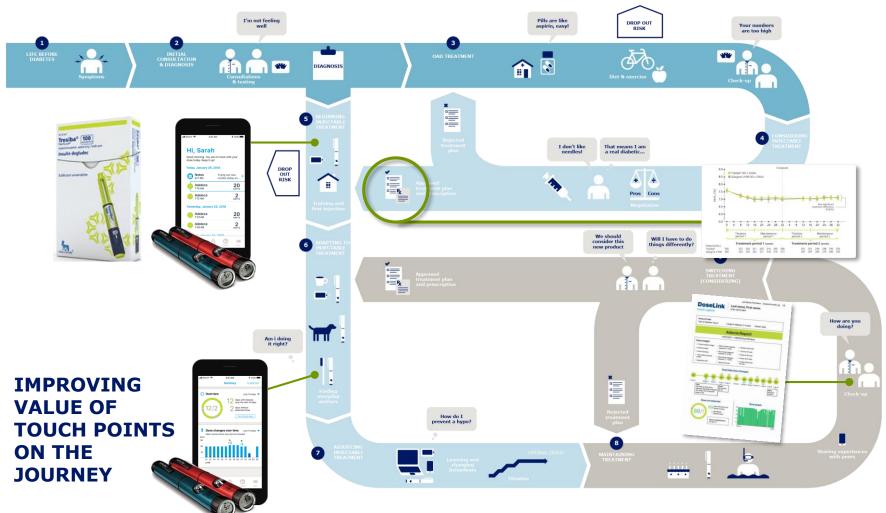




# people don't forget to pick up their kids from day care







# The segment of n=1

المشتقل تتخذ عسرتنا

# **DIGITAL HEALTH SOLUTION TO IMPROVE DIALOGUE**

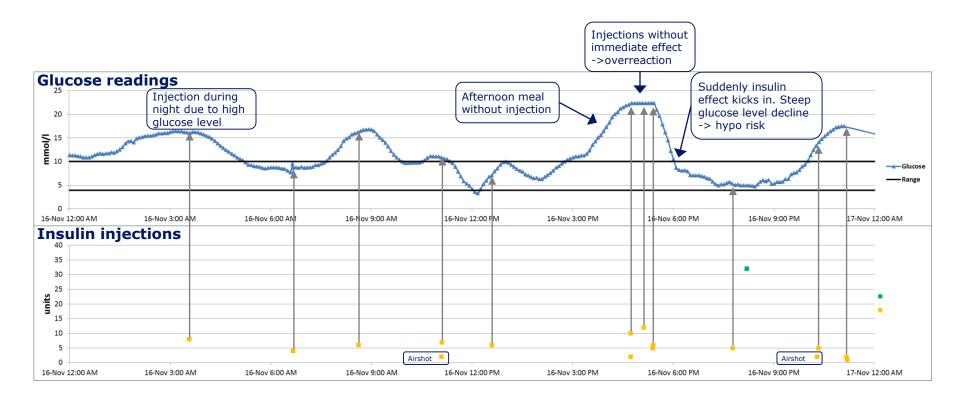
# Data download



### looko + diasend Review my data 66 in 01 Jane Doe Comparison 10 7 Friday 21/04/2017 Ount Period: 08/04/2017 - 21/04/2017, 14 days Select time interval \* mmol/t Glucose 12:00 16:00 18:00 20:00 00:00 Insulin dose (Units Insulin 00.00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00 NovoRapid® Tresiba® Time U 21:14 20.0 6.0 4.0

# Data visualisation

Date



No single person would like to have diabetes, and no one would choose to engage further with their disease if they can avoid it

Most people are not non-adherent because of lack of information - it is because of lack importance

it's not about the app, it's about knowing the patient and improving their experience towards better health

let us start to design solutions that let people with diabetes and other chronic diseases decrease the engagement needed to effectively treat their disease.